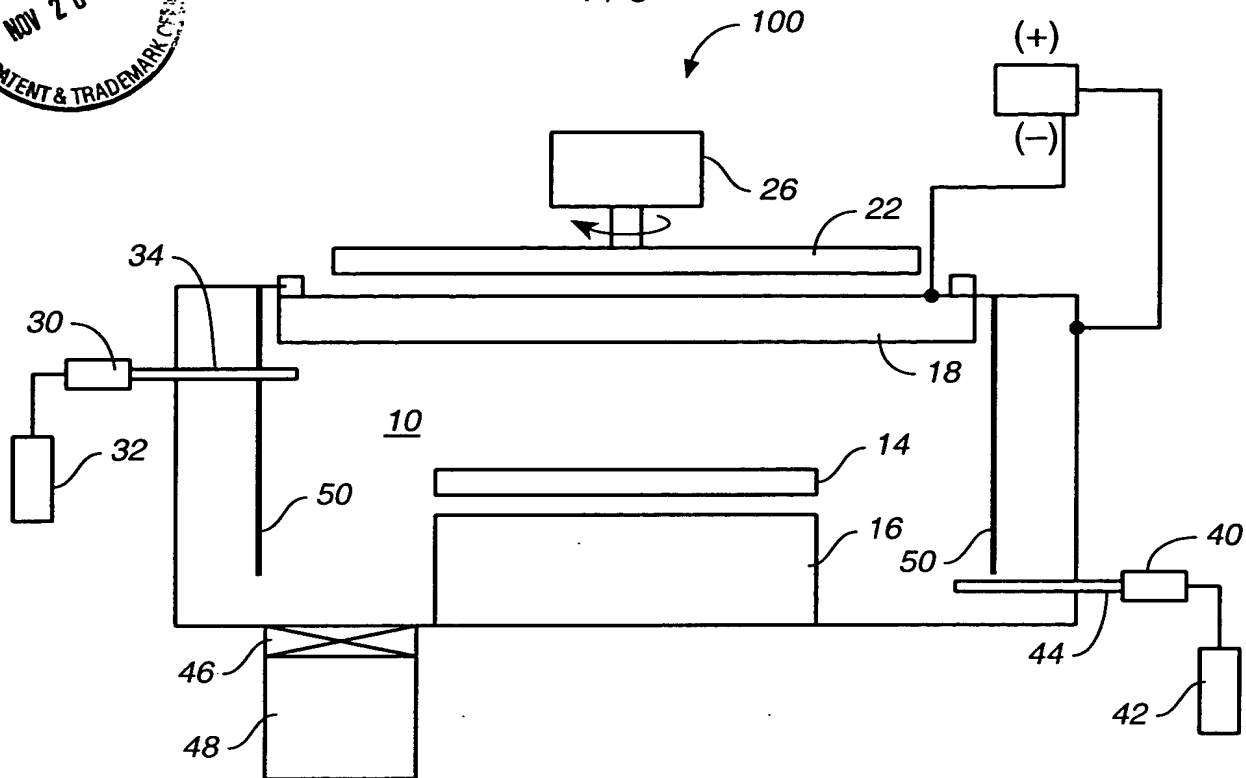
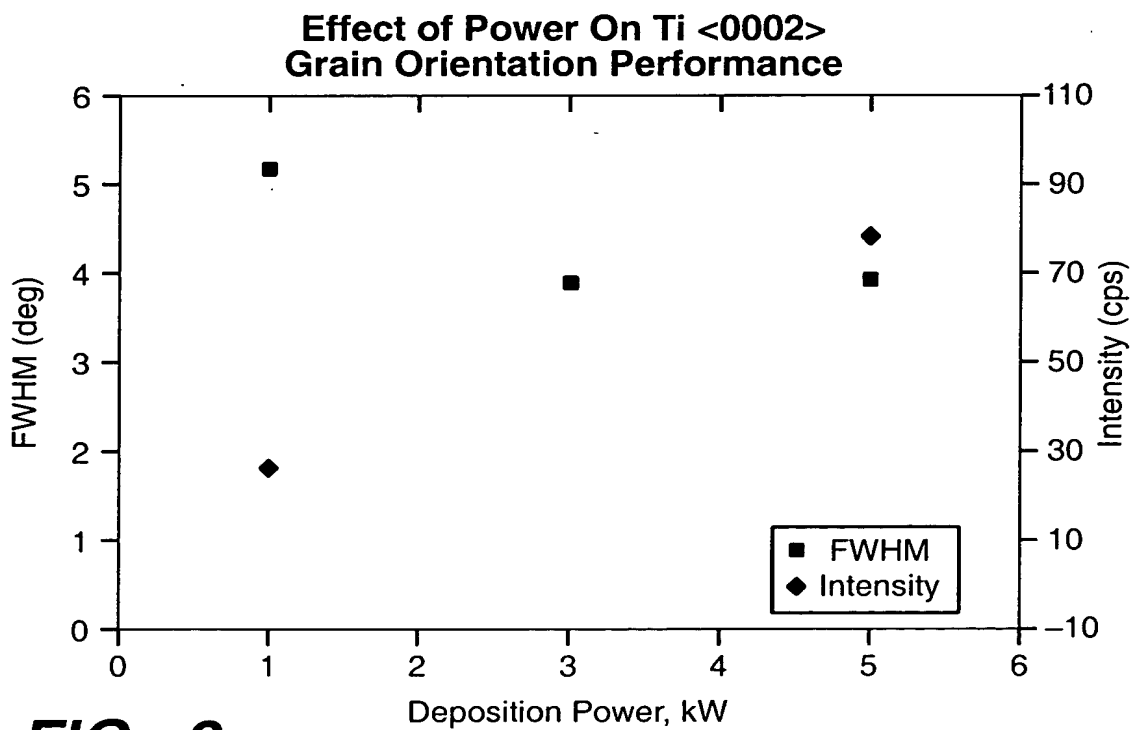




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**FIG. 1**

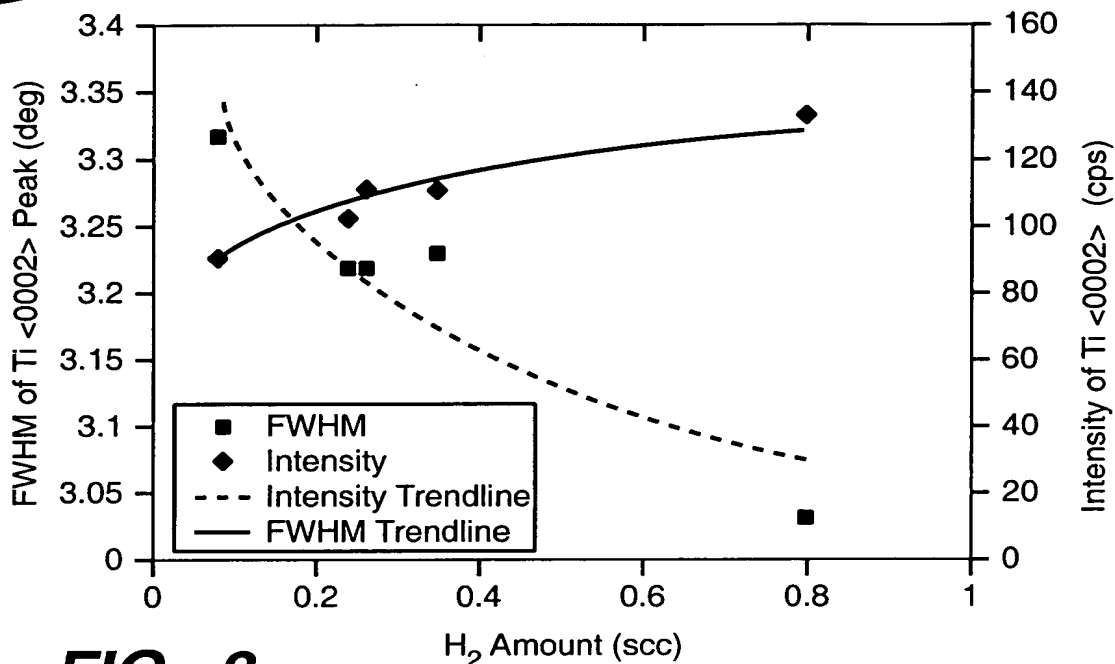


**FIG. 2**



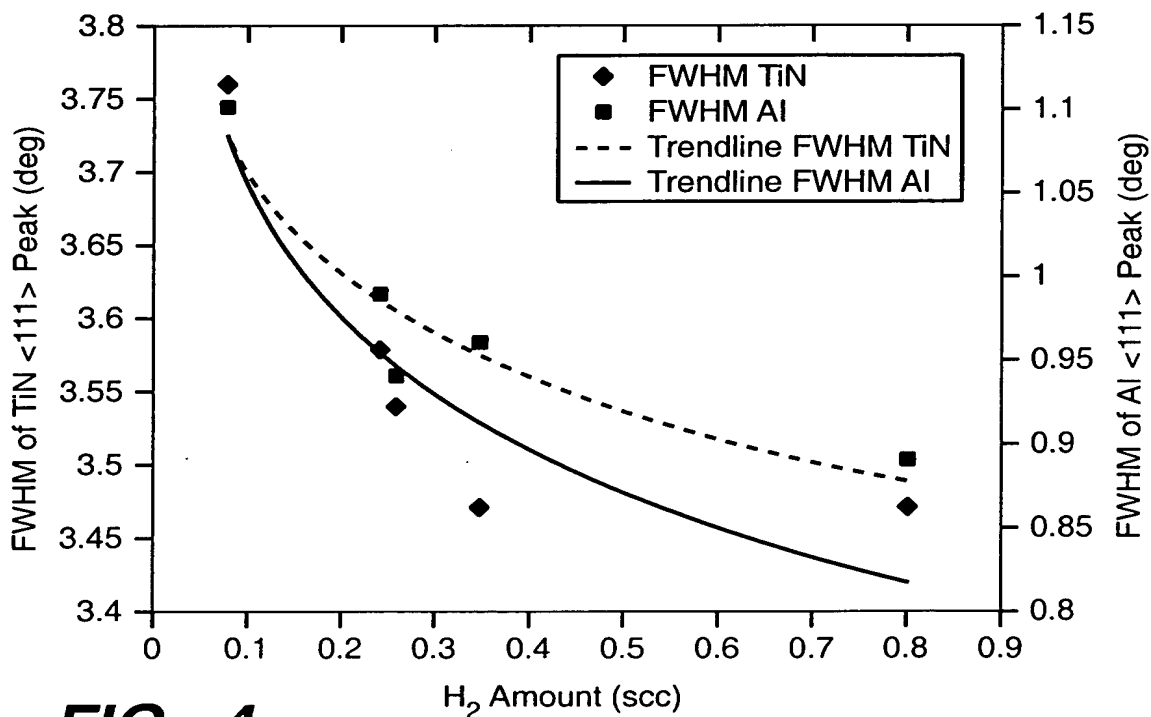
2 / 3

### Ti <0002> Grain Performance vs. H<sub>2</sub> Amount Introduced in Ti Module During Burst Step

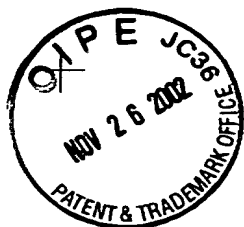


**FIG. 3**

### TiN <111> and Al <111> Grain Performance vs. H<sub>2</sub> Amount Introduced in Ti Module During Burst Step

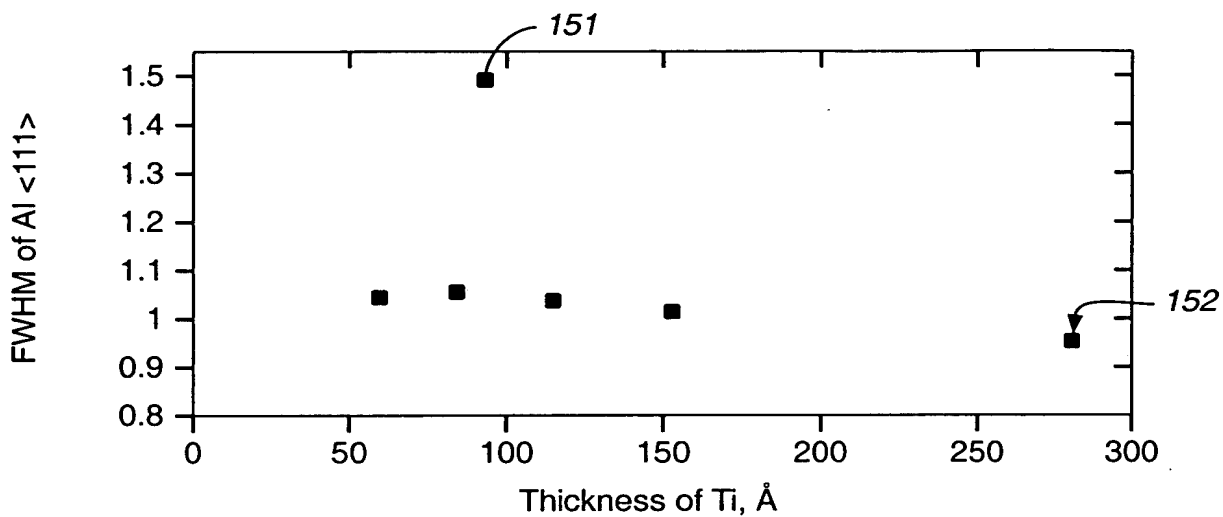


**FIG. 4**



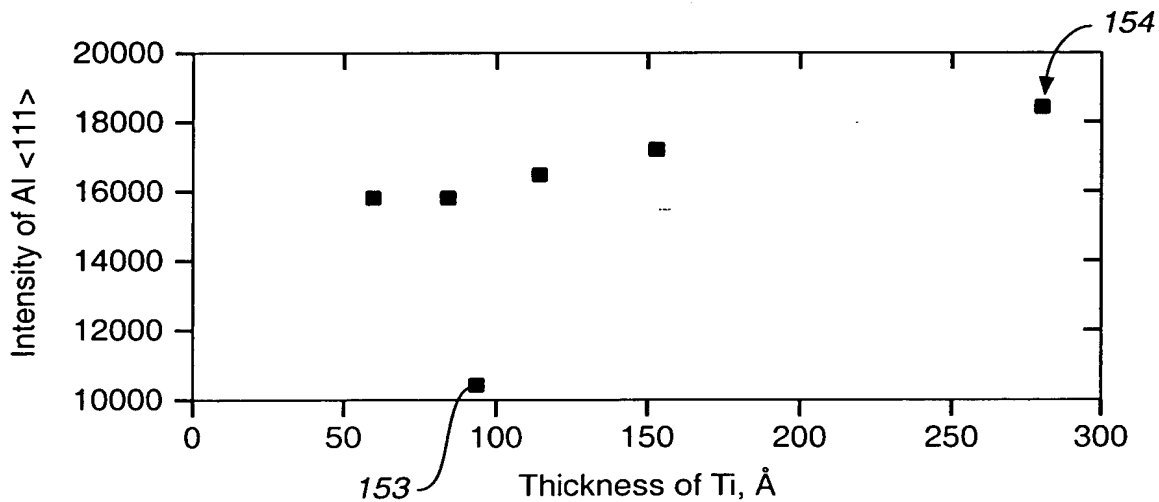
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**FWHM of Al  $\langle 111 \rangle$  P ak vs. Thickness of Ti Underlayer**



**FIG.\_5a**

**Intensity of Al  $\langle 111 \rangle$  Peak vs. Thickness of Ti Underlayer**



**FIG.\_5b**